

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-719  
Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1996 model-year General Motors Corporation exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: TGM4.31PGFEK Displacement: 4.3 Liters (262 Cubic Inches)

Exhaust Emission Control Systems and Special Features:

Exhaust Gas Recirculation  
Three Way Catalytic Converter  
Dual Heated Oxygen Sensors  
Heated Oxygen Sensors (Two)  
Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle Weight(lbs.)	Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
0-3750	50,000	0.25	3.4	0.4	10.0
	100,000	0.31	4.2	0.6	n/a

The certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle Weight(lbs.)	Miles	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Carbon Monoxide (20°F)
0-3750	50,000	0.11	1.1	0.2	3.5
	100,000	0.12	1.2	0.2	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles", and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

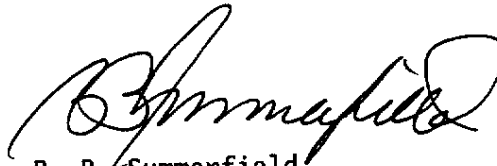
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 13<sup>th</sup> day of July 1995.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

# AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET LIGHT DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Example, Pattern A: CC10703+E62  
Example, Pattern B: 1UM05

## Digit 1 = Marketing Division

### Pattern A

C = Chevrolet  
T = GMC  
H = Oldsmobile

### Pattern B

1 = Chevrolet  
2 = Pontiac  
3 = Oldsmobile

Note: Digit 1 is not used for Pattern A models on engine family pages or California Supplemental Data Sheets.

## Digit 2 = Chassis Type (all)

U = Conventional 4x2 Front Wheel Drive  
C, S, M = Conventional 4x2 Rear Wheel Drive  
G = Forward Control 4x2 Rear Wheel Drive  
K, T, L = Conventional 4x4 Four Wheel Drive, All Wheel Drive

## Digit 3 = Series/GVWR

### Pattern A

1 = 10,15,1500/3500-7300  
2 = 20,25,2500/6400-8600  
3 = 30,35,3500/7100-14500

### Pattern B

Letter code designates trim level rather than series/GVWR.

## Digits 4 & 5

### Pattern A = Dimensional Grouping

05 = Blazer, Jimmy, Bravada  
06 = S/T Short Box  
07 = C/K Short Box  
08 = S/T Long Box & Cab-Chassis  
09 = C/K Long Box, Suburban,  
M/L Short Body  
10 = G Short Wheelbase, M/L Long Body  
13 = G Long Wheelbase

### Pattern B

05 = Cargo (APV)  
06 = Passenger (Lumina APV, Trans Sport, Silhouette)

## Digits 6 & 7 = Body/Cab Codes (Pattern A Only)

03 = Conventional Cab, Cab-Chassis  
05 = Cargo Van  
06 = Passenger Van, 4 Door Special Purpose Vehicle  
16 = 2 Door Special Purpose Vehicle  
53 = Extended Cab

## Pickup Body Codes (Optional, Used with Pattern A Only)

+E62 = Stepside, Fenderside  
+E63 = Fleetside, Wideside  
+ZW9 = Cab-Chassis

## 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM4.31PGFEK

EVAP STD: 50K X USEFUL LIFE WITH R/L       

EVAPORATIVE FAMILY: TGM1089AYMBA

EXH STD: TIER-0        TIER-1 X TLEV        LEV        ULEV        ZEV       ; EPA TIER-0        TIER-1 XVEH CLASS(ES): PC        LDT1 X LDT2        MDV1        MDV2        MDV3        MDV4        MDV5       

SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY:

EXH CERT FUEL(S): INDO        PH2 X DIESEL: 13 CCR 2282        OR 40 CFR 86.113-90       OR -94        M85        CNG        LPG        OTHER (SPECIFY)       FUEL TYPE(S): DEDICATED X FLEX-FUEL        DUAL-FUEL        GASOLINE X DIESEL        M85       CNG        LNG        LPG        OTHER (SPECIFY)       HYBRID: TYPE A        B        C        APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA

ENGINE CONFIGURATION: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES

ENGINE: FRONT X MID        REAR        DRIVE: FWD        RWD X 4WD-FT        4WD-PT       

EXHAUST EMISSION CONTROL SYSTEM &amp; COMPONENTS: LEGR, TWC, 2HO2S-HO2S(2), SFI

RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
1	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63	A4	3500 3625  3750	16200785 (BKCX), 16187769-ENG 16192379, 16192380-TRANS 16187577PB-OPER	17096188, 17096309	25152875
2	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63		3500 3625  3750			
3	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63	M5	3500  3625  3750	16192374-ENG 16187774-TRANS		

CARLINE NAME  
CHEV S10 PICKUP 2WD  
GMC SONOMA PICKUP 2WD

CARLINE CODE  
55082  
80072

ISSUED: ML-TP039

REVISED: ML-TP073, ML-TR063

17-TGM4.31PGFEK-2

## 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM4.31PGFEK

EVAP STD: 50K X USEFUL LIFE WITH R/L

EVAPORATIVE FAMILY: TGM1089AYMBA

EXH STD: TIER-0    TIER-1 X TLEV    LEV    ULEV    ZEV   ; EPA TIER-0    TIER-1 XVEH CLASS(ES): PC    LDT1 X LDT2    MDV1    MDV2    MDV3    MDV4    MDV5   

SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY:

EXH CERT FUEL(S): INDO    PH2 X DIESEL: 13 CCR 2282    OR 40 CFR 86.113-90   OR -94    M85    CNG    LPG    OTHER (SPECIFY)   FUEL TYPE(S): DEDICATED X FLEX-FUEL    DUAL-FUEL    GASOLINE X DIESEL    M85   CNG    LNG    LPG    OTHER (SPECIFY)   HYBRID: TYPE A    B    C    APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA

ENGINE CONFIGURATION: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES

ENGINE: FRONT X MID    REAR    DRIVE: FWD    RWD X 4WD-FT    4WD-PT   

EXHAUST EMISSION CONTROL SYSTEM &amp; COMPONENTS: LEGR, TWC, 2HO2S-HO2S(2), SFI

RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
.1A	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63	A4	3500 3625  3750	16200785 (BKCX) 16187769-ENG 16192379 16192380-TRANS 16227245-OPER	17096188 17096309	25152875
2.2A	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63		3500 3625  3750			
3.3A	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63	M5	3500 3625 3750	16192374-ENG 16187774-TRANS		

CARLINE NAME  
CHEV S10 PICKUP 2WD  
GMC SONOMA PICKUP 2WD

CARLINE CODE  
55082  
80072

ISSUED: ML-TR009

REVISED: ML-TR063

17-TGM4.31PGFEK-2.1

## 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM4.31PGFEK

EVAPORATIVE FAMILY: TGM1089AYMBA

AP STD: 50K X USEFUL LIFE WITH R/LEXH STD: TIER-0 TIER-1 X TLEV LEV ULEV ZEV; EPA TIER-0 TIER-1 XVEH CLASS(ES): PC LDT1 X LDT2 MDV1 MDV2 MDV3 MDV4 MDV5

SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY:

EXH CERT FUEL(S): INDO PH2 X DIESEL: 13 CCR 2282 OR 40 CFR 86.113-90

OR -94 M85 CNG LPG OTHER (SPECIFY)

FUEL TYPE(S): DEDICATED X FLEX-FUEL DUAL-FUEL GASOLINE X DIESEL M85

CNG LNG LPG OTHER (SPECIFY)

HYBRID: TYPE A B C APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA

ENGINE CONFIGURATION: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES

ENGINE: FRONT X MID REAR DRIVE: FWD RWD X 4WD-FT 4WD-PT

EXHAUST EMISSION CONTROL SYSTEM &amp; COMPONENTS: LEGR, TWC, 2HO2S-HO2S(2), SFI

RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO./CALIB	EGR SYSTEM PART NO.	CATALYST PART NO.
1B	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63	A4	3500 3625  3750	16200785/ 16227496-ENG 16192379, 16192380-TRANS 16232915PG-OPER	17096188, 17096309	25152875
1C				16232330-ENG 16235505-OPER		
2B	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63		3500 3625  3750	16227496-ENG 16232915PG-OPER		
2C				16232330-ENG 16235505PH-OPER		
3B	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63	M5	3500 3625  3750	16227500-ENG 16227591-TRANS 16232915PG-OPER		
3C				16232334-ENG 16235505PH-OPER		

CARLINE NAME  
CHEV S10 PICKUP 2WD  
GMC SONOMA PICKUP 2WD

CARLINE CODE  
55082  
80072

ISSUED: ML-TR028

REVISED: ML-TR053, ML-TR063

17-TGM4.31PGFEK-2.2

## 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM4.31PGFEK

EVAPORATIVE FAMILY: TGM1089AYMBA

VAP STD: 50K X USEFUL LIFE WITH R/L       EXH STD: TIER-0        TIER-1 X TLEV        LEV        ULEV        ZEV       ; EPA TIER-0        TIER-1 XVEH CLASS(ES): PC        LDT1 X LDT2        MDV1        MDV2        MDV3        MDV4        MDV5       

SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY:

EXH CERT FUEL(S): INDO        PH2 X DIESEL: 13 CCR 2282        OR 40 CFR 86.113-90       OR -94        M85        CNG        LPG        OTHER (SPECIFY)       FUEL TYPE(S): DEDICATED X FLEX-FUEL        DUAL-FUEL        GASOLINE X DIESEL        M85       CNG        LNG        LPG        OTHER (SPECIFY)       HYBRID: TYPE A        B        C        APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA

ENGINE CONFIGURATION: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES

ENGINE: FRONT X MID        REAR        DRIVE: FWD        RWD X 4WD-FT        4WD-PT       

EXHAUST EMISSION CONTROL SYSTEM &amp; COMPONENTS: LEGR, TWC, 2HO2S-HO2S(2), SFI

RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO./CALIB	EGR SYSTEM PART NO.	CATALYST PART NO.
1D	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63	A4	3500 3625   3750	16200785/ 16232330-ENG 16227562, 16227563-TRANS 16237015PJ-OPER	17096188, 17096309	25152875
2D	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63		3500 3625  3750			
3D	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63	M5	3500 3625 3750	16232334-ENG 16227591-TRANS		

CARLINE NAME  
CHEV S10 PICKUP 2WD  
GMC SONOMA PICKUP 2WD

CARLINE CODE  
55082  
80072

ISSUED: ML-TR063

REVISED:

17-TGM4.31PGFEK-2.3

## 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM4.31PGFEK

EVAP STD: 50K X USEFUL LIFE WITH R/L

EVAPORATIVE FAMILY: TGM1089AYMBA

EXH STD: TIER-0    TIER-1 X TLEV    LEV    ULEV    ZEV   ; EPA TIER-0    TIER-1 XVEH CLASS(ES): PC    LDT1 X LDT2    MDV1    MDV2    MDV3    MDV4    MDV5   

SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY:

EXH CERT FUEL(S): INDO    PH2 X DIESEL: 13 CCR 2282    OR 40 CFR 86.113-90   OR -94    M85    CNG    LPG    OTHER (SPECIFY)   FUEL TYPE(S): DEDICATED X FLEX-FUEL    DUAL-FUEL    GASOLINE X DIESEL    M85   CNG    LNG    LPG    OTHER (SPECIFY)   HYBRID: TYPE A    B    C    APU CYCLE (E.G.. OTTO, DIESEL, TURBINE): NA

ENGINE CONFIGURATION: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES

ENGINE: FRONT X MID    REAR    DRIVE: FWD    RWD X 4WD-FT    4WD-PT   

EXHAUST EMISSION CONTROL SYSTEM &amp; COMPONENTS: LEGR, TWC, 2HO2S-HO2S(2), SFI

RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE (NW)	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
1	S10603+E62 S10603+E63 S10803+E63 TS10653+E62 S10653+E63 CS10653+E62	M5	3500 3625  3750	16200785 (BKCX) 16192374-ENG 16187774-TRANS 16187577PB-OPER	17096188. 17096309	25152875
5	S10603+E62 S10603+E63 S10803+E63 S10653+E63 S10653+E62	A4	3500 3625  3750	16187797-ENG 16187889. 16187890-TRANS		
6	TS10603+E62 S10603+E63 S10803+E63 S10653+E62 CS10653+E62 S10653+E63		3500 3625  3750			

CARLINE NAME  
CHEV S10 PICKUP 2WD  
GMC SONOMA PICKUP 2WD

CARLINE CODE  
55082  
80072

ISSUED: ML-TP039

REVISED: ML-TP073, ML-TR063

17-TGM4.31PGFEK-3

## 1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM4.31PGFEK

EVAP STD: 50K X USEFUL LIFE WITH R/L       

EVAPORATIVE FAMILY: TGM1089AYMBA

EXH STD: TIER-0        TIER-1 X TLEV        LEV        ULEV        ZEV       ; EPA TIER-0        TIER-1 XVEH CLASS(ES): PC        LDT1 X LDT2        MDV1        MDV2        MDV3        MDV4        MDV5       

SINGLE CERT STD FOR MULTI-CLASS ENGINE FAMILY:

EXH CERT FUEL(S): INDO        PH2 X DIESEL: 13 CCR 2282        OR 40 CFR 86.113-90       OR -94        M85        CNG        LPG        OTHER (SPECIFY)       FUEL TYPE(S): DEDICATED X FLEX-FUEL        DUAL-FUEL        GASOLINE X DIESEL        M85       CNG        LNG        LPG        OTHER (SPECIFY)       HYBRID: TYPE A        B        C        APU CYCLE (E.G., OTTO, DIESEL, TURBINE): NA

ENGINE CONFIGURATION: V6 DISPLACEMENT: 4.3 LITERS 262 CUBIC INCHES

ENGINE: FRONT X MID        REAR        DRIVE: FWD        RWD X 4WD-FT        4WD-PT       

EXHAUST EMISSION CONTROL SYSTEM &amp; COMPONENTS: LEGR, TWC, 2HO2S-HO2S(2), SFI

RLHP/DPA: SECTION 08.13.02.00

(LOC) ENG CODE	VEH MODELS (SEE PAGE 1)	TRANS TYPE: A-AUTO M-MAN	EQUIV. TEST WEIGHT	IGN SYSTEM (PCME/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
7	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63	M5	3500 3625  3750	16200785 (BKCX) 16187795-ENG 16187774-TRANS 16187577PB-OPER	17096188. 17096309	25152875
8	S10603+E62 S10603+E63 S10803+E63 S10653+E62 S10653+E63		3500 3625  3750			

CARLINE NAME  
CHEV S10 PICKUP 2WD  
GMC SONOMA PICKUP 2WD

CARLINE CODE  
55082  
80072

ISSUED: ML-TP039

REVISED: ML-TP073, ML-TR063

17-TGM4.31PGFEK-4